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| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
|---|-------------|----------------------|---------------------|------------------|
| 10/735,488 | 12/12/2003 | Johan Runc | 53807-00068USPT | 1861 |
| 27045 | 7590 | 08/22/2007 | EXAMINER | |
| ERICSSON INC. 6300 LEGACY DRIVE M/S EVR 1-C-11 PLANO, TX 75024 | | | LI, GUANG W | |
| | | | ART UNIT | PAPER NUMBER |
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

| | | | |
|------------------------------|--------------------------------------|------------------------------------|--|
| Office Action Summary | Application No. 10/735,488 | Applicant(s) RUNE ET AL. | |
| | Examiner Guang Li | Art Unit 2109 | |

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE ____ MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☐ Responsive to communication(s) filed on ____.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-18 is/are pending in the application.
- 4a) Of the above claim(s) ____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) ____ is/are allowed.
- 6) ☒ Claim(s) 1-18 is/are rejected.
- 7) ☐ Claim(s) ____ is/are objected to.
- 8) ☐ Claim(s) ____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on ____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
 Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
 Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some * c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. ____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. ____ |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| Paper No(s)/Mail Date <u>05/03/2004; 10/18/2004</u> | 6) <input type="checkbox"/> Other: ____ |

DETAILED ACTION

1. The instant application having Application No. 10/735488 has a total of 18 claims pending in the application; there are 2 independent claims and 16 dependent claims, all of which are ready for examination by the examiner.

Oath/Declaration

2. The applicant's oath/declaration has been reviewed by the examiner and is found to conform to the requirements prescribed in **37 C.F.R. 1.63**.

Priority

3. As required by **M.P.E.P. 201.14(c)**, acknowledgement is made of applicant's claim for priority based on applications filed on 12/23/2002 (Provisional application: 60/421,131).

Drawings

4. The applicant's drawings submitted are acceptable for examination purposes.

Information Disclosure Statement

5. As required by **M.P.E.P. 609(C)**, the applicant's submissions of the Information Disclosure Statements dated 05/03/2004 and 10/18/2004 are acknowledged by the examiner and the cited references have been considered in the examination of the claims now pending. As required by **M.P.E.P 609 C(2)**, a copy of the PTOL-1449 initialed.

Abstract

6. Applicant is reminded of the proper language and format for an abstract of the disclosure.

The language should be clear and concise and should not repeat information given in the title. It should avoid using phrases which can be implied, such as, "The disclosure concerns," "The disclosure defined by this invention," "The disclosure describes," etc.

Claim Rejections - 35 USC § 102

7. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.

8. Claims 1-18 are rejected under 35 U.S.C. 102(a) as being anticipated by IEEE (IEEE std.802.11f/D3 January 2002).

Regarding claim 1, IEEE teaches a method sending message between two or more network access points via a shared medium network (**transfer of station context information between APs see Page 3 lines 14**), said network access points connecting a point-to-point network to said shared medium network (**The IAPP is a communication protocol, used by the management entity of an AP to communicate with other APs, when various local events occur in the AP see Page 16 lines 7-8**), comprising:

receiving data packets from said point-to-point network at said network access points (**AP receives an associate request it should send an IAPP-ADD packet and a Level 2 Update Frame see Page 16 lines 20**);

formatting said data packets (**Packet Format see Page 22 lines 10-15**) in said network access points as a shared medium network data packet format (**shared access and security block along each other see Page 17 Fig.3**) and

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sending said data packets to said shared medium network from said network access points **(AP receives an associated request it should send an Move-Notify to the old-AP and get back a Move-Response from the old-AP see page 16 lines 28-29)** using an inter-network access point protocol (INAPP) **(practices for implementation of an Inter-AP protocol on a Distribution System see Page 1 lines 8-9).**

9. Regarding claim 2, IEEE teaches the method according to claim 1, wherein said shared medium network format includes a data field that contains an INAPP message **(Data Filed see Page 23 lines 10-12).**

10. Regarding claim 3, IEEE teaches the method according to claim 2, wherein only network access points can send and receive data packets containing said INAPP message **(IAPP supports two protocol sequences: one is initiated by an associate request to an Access point and other is initiated by a reassociate request see page 16 lines 17-18).**

11. Regarding claim 4, IEEE teaches the method according to claim 3, wherein said INAPP message includes an INAPP information message for informing said network access points of a new node connected to a service area of any said network access point **(Station Add Process when the interaction between APs in an ESS when a STA is added to STAs associated with an AP see Page 21 lines 19-25),** and an INAPP encapsulation message for sending encapsulated point-to-point network data packets to said network access points **(The data field of new AP security block**

carries the security information need by the new AP to decrypt and encrypt ESP packets see page 19 line 12-13).

12. Regarding claim 5, IEEE teaches the method according to claim 4, further comprising receiving from said point-to-point network a registration message (**support for 802.11 authentication see page 20 lines 10-17**) containing a MAC address of said new node at one of said network access points and sending an INAPP information message from said network access point receiving said registration message to said shared medium network, said INAPP information message containing information about said new node including said MAC address of said new node (**Semantic of service primitive message contain MAC address, sequence number, old AP and context block that associated with node see page 12 lines 21-31; page 13 lines 21-29**).

13. Regarding claim 6, IEEE teaches the method according to claim 5, further comprising receiving said INAPP information message from said shared medium network at another one of said network access points, storing said information about said new node in said other network access point (**Once AP received the IAPP ADD-notify packet, to updated any forwarding information they may hold regarding the STA identified by the MAC address in the SA field of the frame see Page 21 lines 19-35**), and using said stored information to prevent data packets addressed to said new node from being forwarded into a service area of said other network access point (**upon receiving the service primitive message, the AP should forward any relevant context related to the reassocated station to the AP with which the station is now associated see page 15 lines 4-11**).

14. Regarding claim 7, IEEE teaches the method according to claim 6, further comprising preventing data packets that originate in said other network access point's

own service area that are addressed to said new node from being blocked by said other network access point (**security block packet will block other network access point from accessing see page 21 lines 3-11**).

15. Regarding claim 8, IEEE teaches the method according to claim 4, wherein said encapsulated point-to-point network data packets include route requests route replies and route failure messages to be forwarded to said point-to-point network (**IAPP initiate request, confirm and failure and see page 8 lines 10-13; line 27-31**).

16. Regarding claim 9, IEEE teaches the method according to claim 8, wherein said route requests include ARP route requests and non-ARP route requests (**Address mapping of wireless medium addresses of APs (their BSSID) to DS network layer address (IP addresses) see page 3 lines 7-8; page 16 lines 9-15**), and said route replies include ARP route replies and non-ARP route replies (**request and response from the old-AP and Move-Notify and Move Response packet, then the RADIUS reply to the new AP will include, in addition to the IP address of the Old AP, Reply item with Security Block for both the new and old AP see page 16 lines 28-33**).

17. Regarding claims 10-18, they are rejected for the same reasons as set forth hereinabove. Regarding claims 10-18, IEEE taught the claimed method, therefore together, IEEE teaches the claimed system.

Conclusion

The following prior art made of record and not relied upon is cited to establish the level of skill in the applicant's art and those arts considered reasonably pertinent to applicant's disclosure. See **MPEP 707.05(c)**.

The following reference teaches execution of trial data.

- US 6,452,910 (Vij et al.)
- US 6,834,192 (Watanabe et al.)
- US 2002/0061009 A1 (Sorensen)
- US 2003/0003912 A1 (Melpignano et al.)

The examiner requests, in response to this Office action, support be shown for language added to any original claims on amendment and any new claims. That is, indicate support for newly added claim language by specifically pointing to page(s) and line no(s) in the specification and/or drawing figure(s). This will assist the examiner in prosecuting the application.


When responding to this office action, Applicant is advised to clearly point out the patentable novelty which he or she thinks the claims present, in view of the state of the art disclosed by the references cited or the objections made. He or she must also show how the amendments avoid such references or objections See 37 CFR 1.111(c).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Guang Li whose telephone number is (571) 270-1897. The examiner can normally be reached on Monday-Friday 8:30AM-5:00PM(EST).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jeff Pwu can be reached on (571) 272-6798. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

August 17, 2007
Guang Li
Patent Examiner


JEFFREY PWU
SUPERVISORY PATENT EXAMINER